

15 de Abril de 2026

12:00

Salón de Actos, Facultad de Ciencias
(Ed. B, Matemáticas), Campus S. Francisco

INMA

Impulso

Integrating Health, Environment, and Energy through Nanotechnology: A One Health Approach



Prof. Daniel Ruiz-Molina
Institut Català de Nanociència i
Nanotecnologia (ICN2)

About the speaker: Daniel Ruiz-Molina is a Full Professor at the Spanish National Research Council (CSIC) and Editor of Biomimetics. After his PhD at ICMAB-CSIC and a postdoc at UC San Diego, he has led the Nanostructured Functional Materials Group (NanosFun) at ICN2 since 2006. His research focuses on functional nanostructures for environmental and medical applications. He has published over 200 articles and co-founded four startups in environment and health.

Abstract: Our research group pioneers the One Health paradigm by uniting medicine, environmental science, and efficient energy systems—including smart windows. Using nanotechnology and bioinspired approaches, we predict zoonotic diseases, analyze pollution drivers, and develop sustainable infrastructure to reduce ecological impact. This interdisciplinary strategy addresses root causes of planetary health challenges. In this presentation, we will review our work.